



PTO/SB/08a/b (05-03)

Approved for use through 05/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449/PTO					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/717,450
				Filing Date	November 20, 2000
				First Named Inventor	NEUHOLD and KILLAR
				Art Unit	1632
				Examiner Name	Michael C. Wilson
Sheet	1	of	3	Attorney Docket Number	0630/1D532-US2

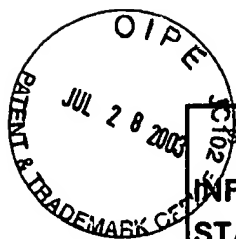
U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Filing Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document; Class/Subclass	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	1.	5,650,298	06/14/1994	Bujard et al.; 435/69.7	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Class/Subclass	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
/MW/	2.	WO 95/32285 A2	05/18/1995	C12N 15/12		
/MW/	3.	WO 92/22333	06/10/1992	A61K 49/00		
/MW/	4.	DE 19501032 A	07/18/1996	A61K 38/55		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ²
/MW/	5.	nauper, Vera, et al., "Biochemical Characterization of Human Collagenase-3", <i>The Journal of Biological Chemistry</i> , 271(3):1544-1550, January 19, 1996			
/MW/	6.	Billinghurst, R. Clark, et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", <i>J. Clin. Invest.</i> , 99(7):1534-1545, April 1997			
/MW/	7.	Mitchell, Peter G., et al., "Cloning, Expression, ... Osteoarthritic Cartilage", <i>J. Clin. Invest.</i> , 97(3):761-768, February 1996			
	8.	(Duplicate)			
/MW/	9.	Liu, Xin, et al., "A Targeted Mutation at the Known ... Remodeling", <i>The Journal of Cell Biology</i> , 130(1):227-237, July 1995			
/MW/	10.	Khokha, Rama, et al., "Utilization of Transgenic Mice in the Study .. Inhibitors", <i>Cancer and Metastasis Reviews</i> , 14(2):97-111, 1995			
/MW/	11.	No, David, et al., "Ecdysone-Inducible Gene Expression in Mammalian Cells and Transgenic Mice", <i>Proc. Natl. Acad. Sci. USA</i> , 93:3346-3351, April 1996			

(M:\0630\1d532us1\00022863.DOC #####) Examiner Signature /Michael Wilson/	Date Considered 08/16/2007
--	--------------------------------------



PTO/SB/08a/b (05-03)

Approved for use through 05/31/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449/PTO					
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/717,450
				Filing Date	November 20, 2000
				First Named Inventor	NEUHOLD and KILLAR
				Art Unit	1632
				Examiner Name	Michael C. Wilson
Sheet	2	of	3	Attorney Docket Number	0630/1D532-US2

/MW	12.	Wang, Yaolin, et al., "A Regulatory System for Use in Gene Transfer", <i>Proc. Natl. Acad. Sci. USA</i> , 91:8180-8184, August 1994	
	13.	Wang, Y., et al., "Positive and Negative Regulation of Gene Expression in Eukaryotic Cells with an Inducible Transcriptional Regulator", <i>Gene Therapy</i> , 4:432-441, 1997	
	14.	Mattioni, Tiziana, et al., "Regulation of Protein Activities by Fusion to Steroid Binding Domains", <i>Methods in Cell Biology</i> , 43:335-352, 1994	
	15.	Watson, James, D., et al., "The Introduction of Foreign Genes into Mice", <i>Recombinant DNA</i> , 2d Ed., W.H. Freeman & Co., New York, 1992, pp. 255-272	
	16.	Gordon, Jon W., "Transgenic Animals", <i>International Review of Cytology</i> , 155:171-229, 1989	
	17.	Jaenisch, Rudolf, "Transgenic Animals", <i>Science</i> , 240:1468-1474, June 10 1988	
	18.	Rossant, J., "Manipulating The Mouse Genome: Implications for Neurobiology", <i>Neuron</i> , 2:323-334, March, 1990	
	19.	Weingarten, Harold, et al., "Synthetic Substrates of Vertebrate Collagenase", <i>Biochemistry</i> 24:6730-6734, 1985	
	20.	Woessner, Jr., J. Frederick, and Taplin, C.J., "Purification and Properties of a Small Latent Matrix Metalloproteinase of the Rat Uterus", <i>The Journal of Biological Chemistry</i> , 263(14):16918-16925, November 15, 1988	
	21.	Knight, C. Graham, et al., "A Novel Coumarin-Labelled Peptide ... Metalloproteinases", <i>Federation of European Biochemical Societies Letters</i> , 296(3):263-266, January 1992	
	22.	Witty, Jean, P., et al., "Matrix Metalloproteinases Are Expressed ... Alveolar Development", <i>Molecular Biology of the Cell</i> , 6:1287-1303, October 1995	
	23.	Gossen, Manfred, and Bujard, H., "Tight Control of Gene Expression in Mammalian ... Promoters", <i>Proc. Natl. Acad. Sci. USA</i> , 89:5547-5551, June 1992	
	24.	(Duplicate)	
	25.	D'Armiento, Jeanine, et al., "Collagenase Expression in the Lungs of Transgenic Mice Causes Pulmonary Emphysema", <i>Cell</i> , 71: 995-961, December 11, 1992	
/MW	26.	Weir, Eleanor, C., et al., "Targeted Overexpression of ... Bone Formation", <i>Proc. Natl. Acad. Sci. USA</i> , 93:10240-10245, September 1996	
{M:\0630\1d532us1\00022863.DOC #####} Examiner Signature /Michael Wilson/			Date Considered 08/16/2007

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet	3	of	3	Application Number	09/717,450
				Filing Date	November 20, 2000
				First Named Inventor	NEUHOLD and KILLAR
				Art Unit	1632
				Examiner Name	Michael C. Wilson
				Attorney Docket Number	0630/1D532-US2

/MW/	27.	Overbeek, Paul A., "Transgenic Phenomenology", <i>Transgenic Animal Technology</i> , pp. 96-98	
	28.	Robl, James, M., and Heideman, J.K., "Production of Transgenic Rats and Rabbits", <i>Transgenic Animal Technology</i> , pp. 265-270, 1994	
	29.	Mullins, Linda J., and Mullins, John J., "Perspectives Series: Molecular Medicine in Genetically Engineered Animals", <i>J. Clin. Invest.</i> , 98(11):S37-S40, 1996	
	30.	Shapiro, Steven, D., "Mighty Mice: Transgenic Technology 'Knocks out' Questions of Matrix Metalloproteinase", <i>Matrix Biology</i> , 15:527-533, 1997	
	31.	D'Armiento, Jeanine, et al., "Collagenase Expression in Transgenic Mouse Skin Causes ... Tumorigenesis", <i>Molecular and Cellular Biology</i> , 15(15):5732-5739, Oct. 1995	
	32.	Freije, Jose M.P., et al., "Molecular Cloning and Expression of Collagenase-3, a Novel Human Matrix Metalloproteinase Produced by Breast Carcinomas", <i>The Journal of Biological Chemistry</i> , 269(24):16766-16773, June 17, 1994	
	33.	Sympton, Carolyn J., et al., "Targeted Expression of Stromelysin-1 ... Gene Expression", <i>The Journal of Cell Biology</i> , 125(3):681-693, May 1994	
	34.	Sanchez-Lopez, Rosana, et al., "Structure-Function Relationships in the Collagenase Family Member Transin", <i>The Journal of Biological Chemistry</i> , 263(24):11892-11900, August 1988	
	35.	Kozaci, L. Didem, et al., "Degradation of Type II Collagen, ... Cultures", <i>Arthritis & Rheumatism</i> , 40(1):164-174, January 1997	
	36.	Wall, R.J., "Transgenic Livestock: Progress and Prospects for the Future", <i>Theriogenology</i> , 45:57-68, 1996	
/MW/	37.	Ebert, Karl M. et al., "A Moloney MLV-Rat Somatotropin Fusion Gene Produces Biologically Active Somatotropin in a Transgenic Pig", <i>Molecular Endocrinology</i> , pp. 277-282, 1988	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

(M:\0630\1d532us1\00022863.DOC

*****}

Examiner
Signature

/Michael Wilson/

Date
Considered

08/16/2007



PTO/SB/08a/b (05-03)
Approved for use through 05/31/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449/PTO		Application Number		09/717,450	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Filing Date		November 20, 2000	
		First Named Inventor		NEUHOLD	
		Art Unit		1632	
		Examiner Name		Michael C. Wilson	
Sheet	3	of	3	Attorney Docket Number	00630100D532US2

ma	27.	Overbeek, Paul A., "Transgenic Phenomenology", <i>Transgenic Animal Technology</i> , pp. 96-98, 1994
	28.	Robl, James, M., and Heideman, J.K., "Production of Transgenic Rats and Rabbits", <i>Transgenic Animal Technology</i> , pp. 265-270, 1994
	29.	Mullins, Linda J., and Mullins, John J., "Perspectives Series: Molecular Medicine in Genetically Engineered Animals", <i>J. Clin. Invest.</i> , 98(11):S37-S40, 1996
	30.	Shapiro, Steven, D., "Mighty Mice: Transgenic Technology 'Knocks out' Questions of Matrix Metalloproteinase", <i>Matrix Biology</i> , 15:527-533, 1997
	31.	D'Armiento, Jeanine, et al., "Collagenase Expression in Transgenic Mouse Skin Causes ... Tumorigenesis", <i>Molecular and Cellular Biology</i> , 15(15):5732-5739, Oct. 1995
	32.	Frelje, Jose M.P., et al., "Molecular Cloning and Expression of Collagenase-3, a Novel Human Matrix Metalloproteinase Produced by Breast Carcinomas", <i>The Journal of Biological Chemistry</i> , 269(24):16766-16773, June 17, 1994
	33.	Sympson, Carolyn J., et al., "Targeted Expression of Stromelysin-1 ... Gene Expression", <i>The Journal of Cell Biology</i> , 125(3):681-693, May 1994
	34.	Sanchez-Lopez, Rosana, et al., "Structure-Function Relationships in the Collagenase Family Member Transin", <i>The Journal of Biological Chemistry</i> , 263(24):11892-11900, August 1988
	35.	Kozaci, L. Didem, et al., "Degradation of Type II Collagen, ... Cultures", <i>Arthritis & Rheumatism</i> , 40(1):164-174, January 1997
	36.	Wall, R.J., "Transgenic Livestock: Progress and Prospects for the Future", <i>Theriogenology</i> , 45:57-68, 1996
mw	37.	Ebert, Karl M. et al., "A Moloney MLV-Rat Somatotropin Fusion Gene Produces Biologically Active Somatotropin in a Transgenic Pig", <i>Molecular Endocrinology</i> , pp. 277-282, 1988

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

*Applicant's unique citation designation number (optional). *Applicant is to place a check mark here if English language Translation is attached.

(M:\0630\1d532us1\00022863.DOC [XXXXXXXXXX]) Examiner Signature		Date Considered 3-8-04	
--	--	------------------------------	--



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

SHEET 3 OF 3
(REV. 7-80)**LIST OF REFERENCES CITED BY APPLICANT**

(Use Several Sheets if Necessary)

DOCKET NO.: 0630/1D532US1
APPLICANT: Lisa Ann NEUHOLDSERIAL NO: 09/717,450
FILING DATE: November 20, 2000***EXAMINER
INITIALS**

- mw* ~~*29. Mullins et al, *J. Chir. Investg.*, Vol. 98, pages S37-S40.~~ *No date*
- mw* ~~*30. Shapiro, S. D. *Matrix Biol.*, Vol. 15, pages 527-533.~~ *No date*
- mw* ~~*31. D'Armiento et al, *Mol. Cell Biol.*, Vol. 15, pages 5732-5739.~~ *No date*
- mw* ~~*32. Freije et al, *J. Biol. Chem.*, Vol. 268, pages 16766-16773.~~ *No date*
- mw* *33. Sympson, C. J. et al, *Cell Biology*, 125(3):681-693, May 1994
- mw* *34. Sanchez-Lopez, R. et al, *J. Biol. Chem.* 263(24):11892-11899, Aug. 25, 1988
- mw* *35. Kozaci, L. et al, *Arthritis Rheum.* 40(1):164-174, Jan. 1997
- mw* ~~*36. Wall *Thrombogenesis*, Vol. 48, pages 57-68.~~ *No date*
- mw* ~~*37. Ebert et al, *Mol Endocrinology*, Vol. 2, pages 277-283.~~ *No date*

*REFERENCES NOT SUPPLIED AS THEY CAN BE FOUND IN FILE WRAPPER OF PARENT APPLN. SERIAL NO. 08/994,689,
FILED DECEMBER 19, 1997.

EXAMINER: *MW*DATE CONSIDERED: *1-23-02****EXAMINER:**

Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



FORM PTO-1449

U.S. DEPARTMENT OF COMMERCE PATENT & TRADEMARK OFFICE

SHEET 2 OF 3
(REV. 7-80)**LIST OF REFERENCES CITED BY APPLICANT**

(Use Several Sheets if Necessary)

DOCKET NO.: 0630/1D532US1
APPLICANT: Lisa Ann NEUHOLDSERIAL NO: 09/717,450
FILING DATE: November 20, 2000***EXAMINER
INITIALS**

- mw* *13. Wang et al, *Gene Therapy* 4:432, 1997
- mw* *14. Mattioni et al, *Meth. Cell Biol.* 43:335, 1994
- mw* *15. Watson et al, "The Introduction of Foreign Genes Into Mice," in *Recombinant DNA*, 2d Ed., W.H.

Freeman & Co., New York, 1992, pp. 255-272.

- mw* *16. Gordon, J. W., *Int. Rev. Cytol.* 115:171, 1989
- mw* *17. Jaenisch, *Science* 240:1463, 1989
- mw* *18. Rossant, *Neuron* 2:323, 1990
- mw* *19. Weingarten et al, *Biochem.* 24:6730, 1985
- mw* *20. Woessner et al, *J. Biol. Chem.* 263:16918, 1988
- mw* *21. Knight et al, *FEBS Letts.*, 296:263, 1992
- mw* *22. Witty, J. P. et al, *Mol. Biol. Of the Cell*, 6:1287, Oct. 1995
- mw* *23. Gossen et al, *Proc. Natl. Acad. Sci. USA* 89:5547, 1992

~~*24. Shapiro, *Matrix Biol.* 15:527, 1997~~ **DUPLICATE**

- mw* *25. D'Armiento, J. et al, *Cell*, 71:955-961, Dec. 11, 1992
- mw* *26. Weir, E.C. et al, *Proc. Natl. Acad. Sci. USA*, 93:10240-10245, Sept. 1996

mw *27. Overbeek, P. A. "Factors Affecting Transgenic Animal Production," *Transgenic Animal Technology*,
No date

~~pages 96-98~~

mw *28. Robl and Heldman, "Production of Transgenic Rats and rabbits," *Transgenic Animal Technology*,
No date

~~pages 265-270~~*mw*

1-23-02